

CERTIFICATE FROM THE SUPERVISOR/S

*This is to certify that the thesis entitled “**Studies on intercalation of smectites by cationic surfactants**” by Smt **Madhuchhanda Sarkar**, who got her name registered on 31-10-2008 for the award of Ph.D (Engg.) degree of Jadavpur University is absolutely based upon her own work under the supervision of Dr. Sankar Ghatak and Dr. Kausik Dana and that neither her thesis nor any part of the thesis has been submitted for any degree/ diploma or any other academic award anywhere before.*

1. -----

Sankar Ghatak

*(Signature of the Supervisor
and Date with Office Seal)*

2. -----

Kausik Dana

*(Signature of the Supervisor
and Date with Office Seal)*